PATENT COOPERATION TREATY

NTERNATIONAL SEARCHING AUTHO	DHITY		PCT
see form PCT/ISA/220		WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43 <i>bi</i> s.1)	
		Date of mailing (day/month/year) se	e form PCT/ISA/210 (second sheet)
Applicant's or agent's file reference see form PCT/ISA/220		FOR FURTHER See paragraph 2 belo	
International application No. PCT/EP2004/005391	International filing date (d. 19.05.2004		Priority date (day/month/year) 02.07.2003
International Patent Classification (IPC) or to G01F1/704, G01N27/414, G01N27, Applicant SICPA HOLDING S.A.	poth national classification a 26, G01N33/15, G01N	and IPC 133/18, G01N33/02	
1. This opinion contains indications relating to the following items: Box No. Basis of the opinion			novelty, Inventive step or industrial ament usually be considered to be a conserver, this does not apply where chosen IPEA become in EA because it is inventible to be a conserver.
For further options, see Form PCT 3. For further details, see notes to For			
	om PC1/IS A/220 .		



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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/005391

	Box N	o. I Basis of the opinion
١.	With re	egard to the language, this opinion has been established on the basis of the international application in guage in which it was field, unless otherwise indicated under this item.
	lai	nis opinion has been established on the basis of a translation from the original language into the follow iguage , which is the language of a translation furnished for the purposes of international search nder Rules 12.3 and 23.1(b)).
2.	With renecess	egard to any nucleotide and/or amino acid sequence disclosed in the international application and sary to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	of filing/furnishing:
		contained in the International application as filed.

3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating therete has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

filed together with the international application in computer readable form.
 furnished subsequently to this Authority for the purposes of search.

4. Additional comments:

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International application No. PCT/EP2004/005391

Box No. II Priority

- The following document has not been furnished:
 - copy of the earlier application whose priority has been claimed (Rule 43bis.1 and 66.7(a)).
 - ☐ translation of the earlier application whose priority has been claimed (Rule 43*bis*.1 and 66.7(b)).

 Consequently it has not been possible to consider the validity of the priority claim. This opinion has
- nevertheless been established on the assumption that the relevant date is the claimed priority date.

 2. □ This opinion has been established as if no priority had been claimed due to the fact that the priority claim
- has been found invalid (Rules 43bis, 1 and 64.1). Thus for the purposes of this opinion, the international filing date indicated above is considered to be the relevant date.
- 3. Additional observations, if necessary:

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims No: Claims Yes: Claims 4-8 1-3.9-17

Inventive step (IS)

. .,.

mveraive step (10)

4-9 1-3,9-17 1-17

Industrial applicability (IA)

No: Claims Yes: Claims

No: Claims

2. Citations and explanations

see separate sheet

Box No. VIII Certain observations on the International application

The following observations on the clairty of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

see separate sheet

Reference is made to the following documents:

- D1: SCHOELLER D A ET AL: 'TOTAL BODY WATER MEASUREMENT IN HUMANS WITH 180 AND 2H LABELED WATER'
- D2: DE 195 07 301 A
- D3: DE 199 01 041 A D4: US-A-3 894 917
- D5: ROSSMANN A ET AL: 'MULTIELEMENT STABLE ISOTOPE RATIO
 ANALYSIS OF GLYCEROL TO DETERMINE ITS ORIGIN IN WINF'

Re Item VIII

Reasoned statement with regard to clarity

claim 2: Claim 2 includes all the features of claim 1. Hence, claim 2 should be reformulated as a claim dependent on claim 1, cf. Rule 29(4) EPC and the Guidelines C-III. 3.5.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1 and 17 is not new in the sense of Article 33(2) PCT.

claim 1:

D1 discloses a method for marking a material (human body), the method comprising the steps of:

 identifying at least one ion comprised in the said material at a concentration level of below 50 ppm in the unmarked state (the natural abundances of isotopes as

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International application No.

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deuterium and 18O are very low but are nevertheless existent)

- selecting a marking composition comprising at least one ion1 as identified in step 1
- incorporating the marking composition of step 2 into the said unmarked material (application of labelled water to the body)

wherein the concentration level of the said at least one ion in the marked material is increased in step 3 by at least the factor of 3 as compared to the concentration level of the ion present in the unmarked material.

claim 17:

for reasons analogous to those given for claim 1, the subject-matter of independent claim 17 is not new either. The marking composition of H18O is non-toxic to the human body is disclosed in D1 (D1: p. 2687, left paragraph).

Various dependent claims do not contain any features which, in combination with 2 the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1-D5 and the corresponding passages cited in the search report.

claim 2:

see D1

claim 3: claim 9: see D1

typical materials to be detected (see D5).

claim 10: standard technical feature, see D1

claim 11-13:

standard sensors for the detection of inorganic ions (see D4)

claim 14:

trivial feature - p. 17 description

claims 15-16:

the subject-matter is already disclosed by D1 (the expression "field audit analysis" is unclear and hence cannot limit the scope for which

protection is sought).

¹ deuterium can exchange in water rapidly with other acidic ion or other protons it is considered as being in an ionic form